

Next Generation Document Exchange (NGDX)

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Document Exchange of the Future

For the lossless, verifiable and direct transmission of documents, there was hardly any alternative to fax for a long time. Fax is legally secure thanks to the OK note and the transmission journal, accepted worldwide and capable of overcoming even poor telephone lines. In addition, it transmits no active content, so that harmful software has no chance - a great advantage over e-mail.

This technology, based on current ITU standards, has been consistently refined for a transmission method that is innovative and future-proof. NGDX now establishes a fast and legally compliant document exchange. The numerous island solutions that spread across become obsolete because NGDX can be used across all industries.

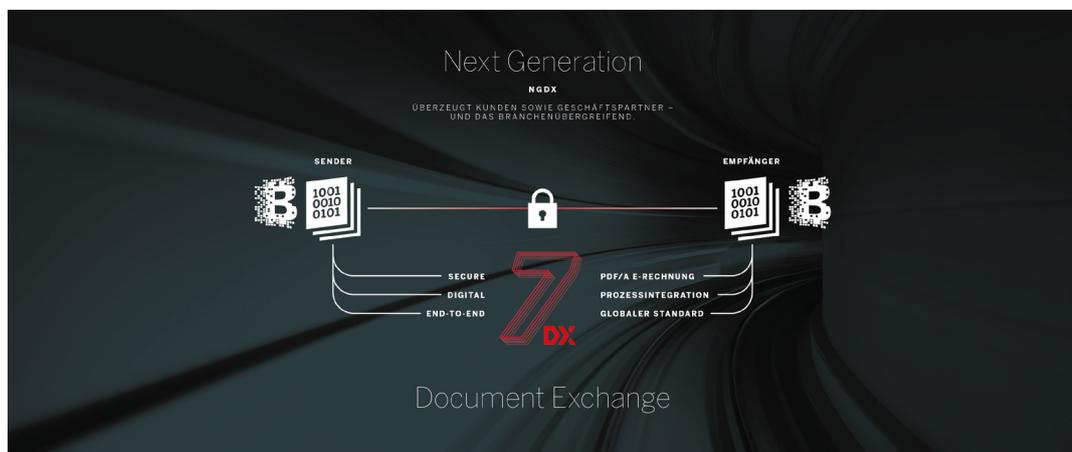
Unbeatable in IT Environments

NGDX utilizes its full potential in an IP environment. With NGDX, customers can exchange real documents as easily as by E-Mail, but with greater security, via the telephone connection, while maintaining the same legal security as with electronic faxes. The "weaknesses" of the fax, such as the low resolution in black and white or the slow transmission, are eliminated with NGDX. It not only al-

lows high speed transmission and display of colors. Hybrid formats, readable by humans and machines, such as PDF/A and ZUGFeRD 2.0 invoices, as well as extensive documents can be transferred without restrictions and loss of quality. If the receiving party cannot receive NGDX, the document exchange solution is of course downward compatible to the conventional fax server. Its compatibility even reaches up to analog fax devices.

Document Encryption Provides Security

Wherever business-critical or sensitive data is exchanged digitally, security concerns are high and legal requirements strict. For this reason, modern document exchange should feature an encrypted end-to-end connection. This ensures that the sender and recipient are clearly verified and the documents cannot be manipulated or copied during transmission.



Solutions by Ferrari Electronic that Feature NGDX

With the **OfficeMaster Suite 7bx**, document exchange is made available to Ferrari electronic AG customers in full for the first time.

All connectors with their deep integrations into the existing customer systems not only transfer faxes, but also original documents in high resolution, with meta information and even in encrypted form. This means that existing processes can not only be reused, but also optimized and expanded.

With the Appliance product group, which currently consists of a **Software Appliance** and the **Business Appliance**, we offer you a very simple entry into the world of digital document exchange. Defined environments, simple commissioning and a license model that is simple and attractive enable you to make all the advantages of NGDX available to your company.

NGDX Basics

Why should I use NGDX rather than Fax or E-Mail?

- » Because NGDX combines the positive features of Fax and E-Mail. It is high-resolution, contains document character and delivers a qualified transmission range after the end-to-end transmission.

Which documents can I send via NGDX?

- » With NGDX, only valid PDF documents without active content such as invoices can be transferred to ZUGFeRD 2.0 and PDF/A.

Is the NGDX transmission encrypted?

- » When it comes to encryption, a distinction must be made between document encryption and transport encryption. Both variants are theoretically possible. However, transport encryption is usually broken up at the media gateways of the carriers or in the companies. In case of doubt it cannot be traced and is therefore worthless.

More effective and therefore more relevant is the encryption of the document itself. This is of course possible and is supported by our software.

Find a full list of NGDX FAQ's on our website.

Conclusion

Modern document exchange methods such as NGDX have the potential to revolutionize the transfer, processing and management of documents. They form the basis for a digital and secure automation of business processes in companies, organizations and authorities.

If the processes are controlled via centric workflows, the right documents can be retrieved at the right time and in the right place. Thanks to end-to-end transmission and encryption, they meet the highest security requirements. Another milestone in secure business communication.

The introduction of NGDX is innovation without risk! Set the course for the future.

Security

To enable encryption with NGDX, you need a "root certificate" for the public key and the associated private key.

- » The process of document encryption in the course of Next Generation Document Exchange is based on two different encryption methods. An asymmetric key pair and a symmetric key are required for encrypted document exchange.
 - » The key pair consists of a secret (private) key and a non-secret (public) key.
 - » With symmetric encryption only one key is used.
 - » NGDX combines both methods in hybrid encryption. The dynamically calculated symmetric key is used to encrypt the document. The symmetric key is secured with the help of the key pair.
 - » The whole certificate handling is carried out on the server and therefore does not require any administrative effort on the clients of the users.
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